

# FortiADC 200F

# Register for Support

Register your Fortinet product to receive:

- Technical Support
- New product features
- Protection from new threats

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

La reistrazione ti permette di usufruire di:

- Supporto Tecnico
- Nuove funzionalita
- Protezione dalle ultime minacce

Debe registrar el producto para recibir:

- Apoyo técnico
- Nuevas funcionalidades del producto
- Protección contra ataques

登録のお願い

本日、フォーティネット製品の登録をしてください。

登録すると次のメリットがあります。

テクニカルサポート・新機能の追加・新しい脅威への防御

请马上注册

您的飞塔产品

您在注册以后才能得到技术支持、新产品特点信息、最新威胁防护



August 16, 2017

1st Edition

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<https://support.fortinet.com>

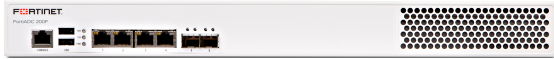
Toll free: 1 866 648 4638

Phone: 1 408 486 7899

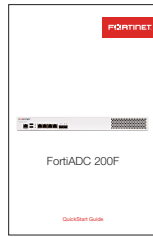
Fax: 1 408 235 7737

Email: [register@fortinet.com](mailto:register@fortinet.com)

# Box Includes



FortiADC 200F



QuickStart Guide



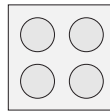
Power cable



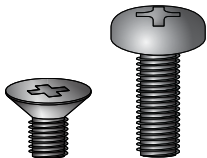
Ethernet cable



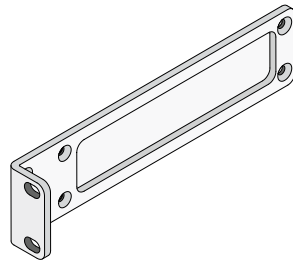
Console cable



4 Rubber feet



1 screw pack for sliding rails and rack mount bracket



2 Sliding rail handles

# Before You Begin

Write down details that you may need from your network administrator or ISP.

## DSL PPPoE

Username

Password

## Cable Modem DHCP

It is normal to not require a hostname but your ISP may require it.

Hostname

## T1/E1, Static broadband, Cable, or DSL with a static IP

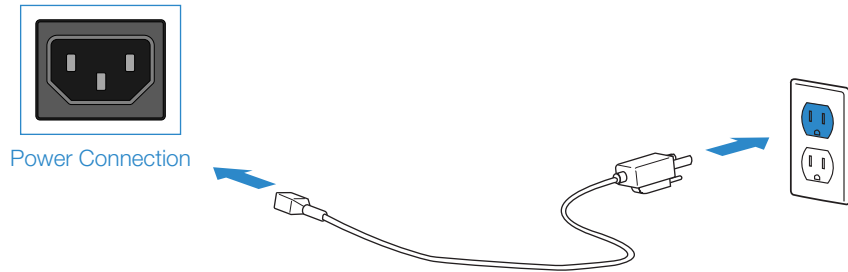
IP Address

Subnet Mask

Default Gateway

Primary/Secondary DNS

## 1 Basic Connections

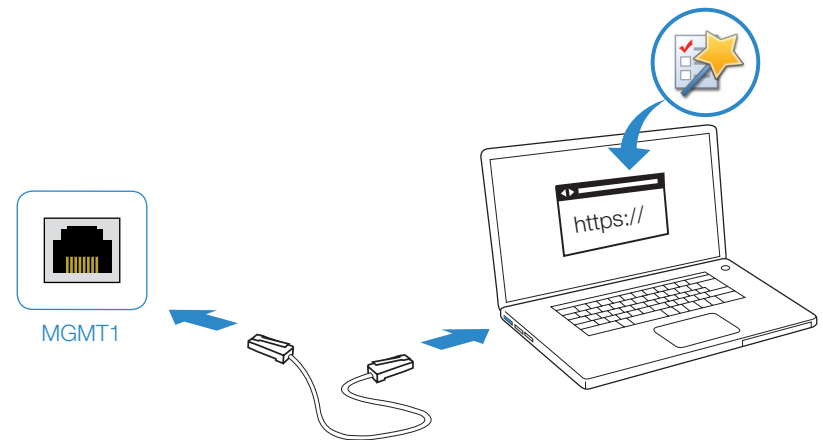


Plug the provided power cable into the rear of the appliance, and then into a grounded electrical outlet or a separate power source such as an uninterruptible power supply (UPS) or a power distribution unit (PDU).

## 2 FortiADC Setup Options

- A Web Browser**  
With Ethernet cable (p.5)
- B Terminal Emulation**  
With console cable (p.6)

### A Web Browser with Ethernet cable



#### To connect to the Web UI

Requires: Microsoft Internet Explorer 9 or higher, the latest version of Mozilla Firefox, Apple Safari 6, or Google Chrome.

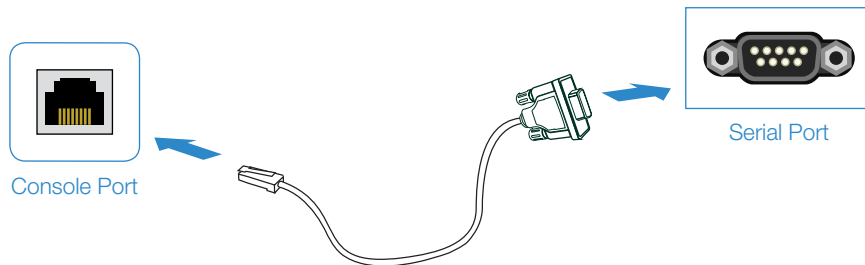
1. Use the [Ethernet cable](#) to connect MGMT port of the FortiADC unit to the management computer.
2. Configure your computer to match the appliance management port default subnet. For example, from the Windows 7 Control Panel, go to Network and Sharing Center. Click the [Local Area Connection](#) link, and then click the [Properties](#) button. Select [Internet Protocol Version 4 \(TCP/IPv4\)](#) and then click its [Properties](#) button. Select [Use the following IP address](#), and then enter the following settings:

**IP address:** 192.168.1.2

**Netmask:** 255.255.255.0

3. To connect to the web UI, start a web browser and go to <http://192.168.1.99>.
4. Type [admin](#) in the Name field, leave the Password field blank, and then click [Login](#).

## B Terminal Emulation with Console Cable



### To Connect to the CLI

Requires: Terminal emulator such as PuTTY, Tera Term, or a terminal server.

1. Connect the appliance console port to the management computer using the provided console cable.
2. Start a [terminal emulation program](#) on the management computer. Select the [COM port](#) and use the following settings:

**Baud Rate:** 9600  
**Data bits:** 8  
**Parity:** None  
**Stop bits:** 1  
**Flow Control:** None

3. Press [Enter](#) on your keyboard to [connect to the CLI](#).
4. Login using username ["admin"](#) and [no password](#). You can now proceed with configuring your device.

Get started by typing ["?"](#) for a list of available commands.

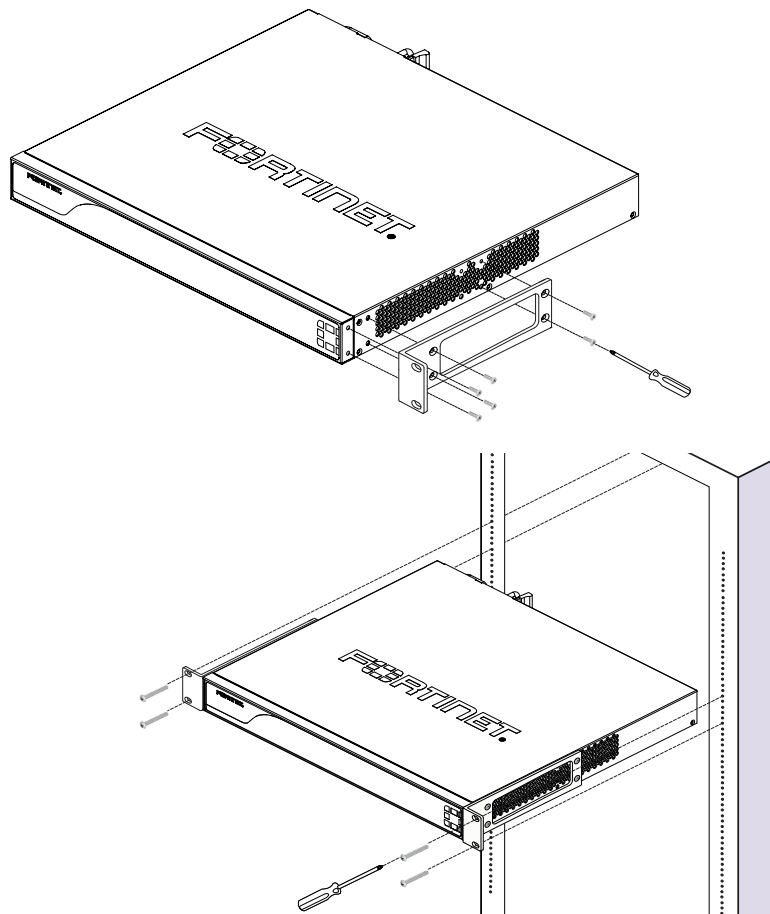
Begin typing a command and type ["?"](#) for a list of available ways to complete.  
For example ["config ?"](#) shows the lowest level of configuration options.

### 3 General Installation

FortiADC appliances should be installed in a restricted access location such as a locked data center to ensure their physical security, which is fundamental to your network security. Either place the FortiADC appliance on a [flat surface](#) or mount the appliance in any standard [19 inch \(48.3 cm\) rack](#) with the rack-mount brackets. In a rack, a FortiADC 200F occupies 1U (1.77 inches/4.45 cm).

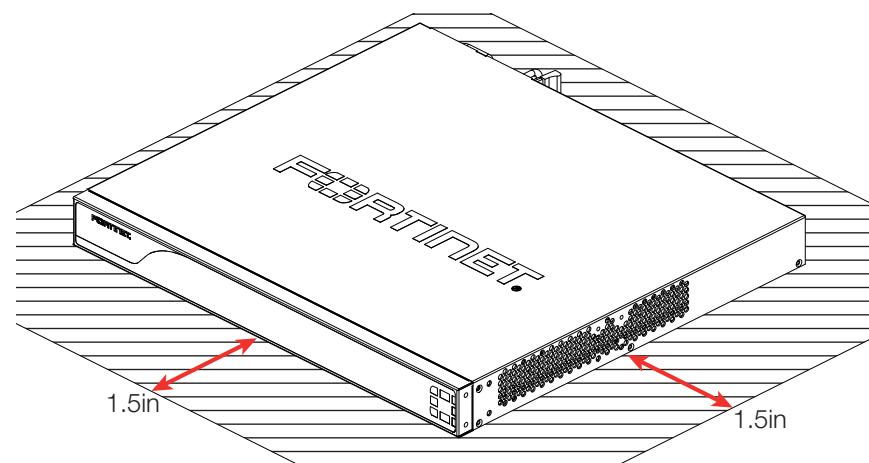
#### To install the unit into a rack

- **2-post rack:** Attach the rack-mount brackets to the middle of each side of appliance so that its weight is distributed evenly.
- **4-post rack:** Attach the rack-mount brackets to the front of each side of the appliance with flanges facing outwards, towards the notches in the rack.



#### To install the unit on a flat surface

Ensure that the surface where the appliance would be placed onto is flat, stable, and clean and spaced for adequate airflow. Attach the [rubber feet](#) provided to the [bottom](#) of the appliance and place it on the specified location.

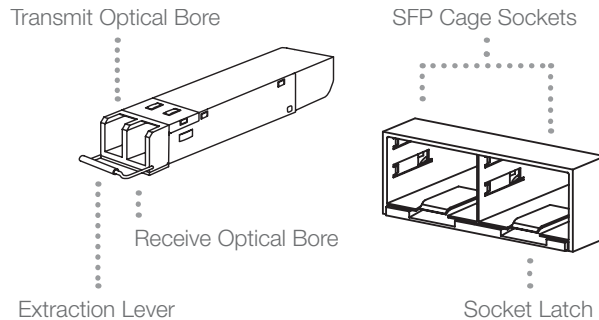


# SFP Transceivers

**Caution:** SFP transceivers are static sensitive devices. Use an ESD wrist strap or similar grounding device when handling transceivers.

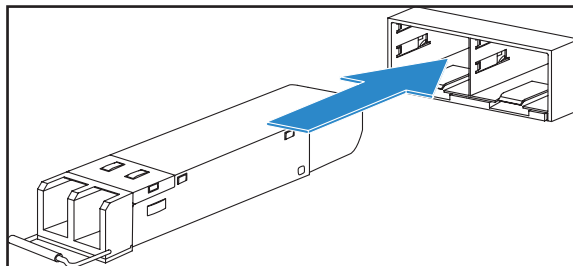
Do not install or remove SFP transceivers while fiber-optic cables are still attached. This can cause damage to the cables, cable connectors, and the optical interfaces. It may also prevent the transceiver from latching correctly into the socket connector.

**Note:** Installing and removing SFP transceivers can shorten their useful life. Do not install or remove transceivers more than is necessary.



## To install the SFP transceivers

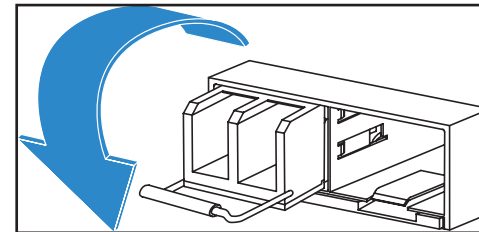
1. Ensure that you are properly grounded.
2. Remove the **caps** from the **SFP cage sockets** on the front panel of the unit.
3. Position the **SFP transceiver** in front of the **cage socket opening** and ensure that the transceiver is correctly oriented. When the **transceiver** is correctly oriented, the **extraction lever** will be level with the **socket latch**.  
**Note:** SFP cage socket orientation may vary. Ensure that the SFP transceiver module is correctly oriented each time that you are inserting a transceiver.
4. Hold the sides of the **SFP transceiver** and slide it into the **cage socket** until it clicks into place.



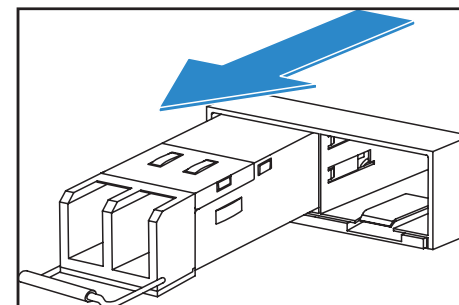
5. Press the **transceiver** firmly into the **cage socket** with your thumb.
6. Verify that the **transceiver** is latched correctly by grasping the sides of the **transceiver** and trying to pull it out without lowering the **extraction lever**.  
If the **transceiver** cannot be removed, it is installed and latched correctly.  
If the **transceiver** can be removed, reinsert it and press harder with your thumb.  
If necessary, repeat this process until the **transceiver** is securely latched into the **cage socket**.

## To remove the SFP transceivers

1. Ensure that you are properly grounded.
2. If applicable, disconnect the **fiber-optic cable** from the **transceiver connector** and install a clean **dust plug** in the **transceiver's optical bores**.
3. Pull the **extraction lever** out and down to eject the **transceiver**. If you are unable to use your finger to open the **lever**, use a **small flat-head screwdriver** or other similar tool to open the **lever**.



4. Hold the sides of the **transceiver** and carefully pull it away from the **cage socket**.



5. Replace the **cap** on the **SFP cage socket** and place the removed **SFP transceiver** into an **antistatic bag**.

**Caution:** Do not force the SFP transceivers into the cage slots. If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the SFP transceiver, realign it or rotate it and slide it in again.

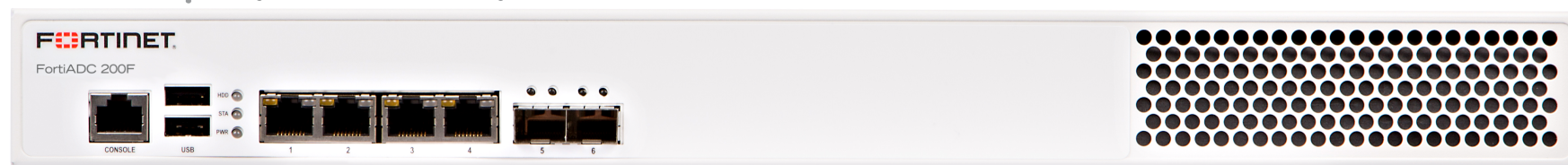
**Note:** Follow proper fiber-optic handling procedures when installing and removing SFP transceivers to ensure the devices remain clean and are not damaged.

## 4 x RJ45 Ports 1-4

Gigabit Ethernet RJ-45 ports for connections to your network

## 2 x USB Ports

Reserved for future use



## Console

Optional connection to the management computer. Provides access to the CLI.

## 2 x SFP Ports 5-6

Gigabit Ethernet SFP ports for connections to your network



## Power Connections

100 – 240VAC, 4 – 2 A, 50 – 60Hz



## HDD Status

 **Flashing Amber:** HDD in use

## Status

- Off: System is normal
- Green: Minor system alarm
- Red: System failure

## Power

- Green: The unit is ON
- Off: The unit is OFF

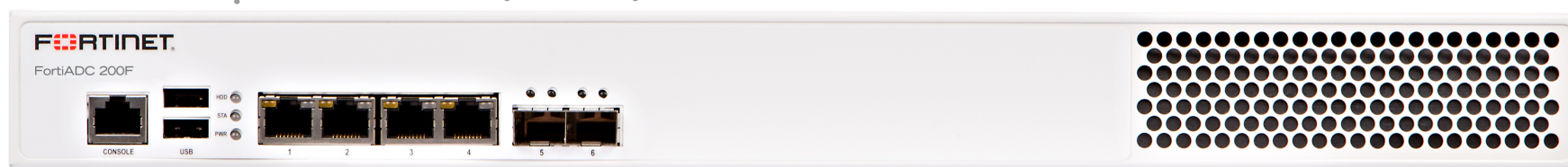
## PORT 5 – 6 Link/Activity (Left)

 **Flashing Amber:** Transmitting & receiving data


- Off: Port is not in use

## PORT 5 – 6 Speed (Right)

- Green: Port is connected at 1Gbps
- Off: No link established



## PORT 1 – 4 Link/Activity (Left)

 **Flashing Amber:** Transmitting & receiving data

- Off: Port is not in use

## PORT 1 – 4 Speed (Right)

- Green: Port is connected at 1Gbps
- Amber: Port is connected at 100Mbps
- Off: Port is connected at 10Mbps or no link

## Cautions and Warnings

### Environmental specifications

Ambient operating temperature: 0C to 40C

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions:

Instructions de montage en rack - Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

**Elevated Operating Ambient** - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.  
**Température ambiante élevée** – S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (Tma) stipulée par le fabricant.

**Reduced Air Flow** - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.  
**Ventilation réduite** – Installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

**Mechanical Loading** - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.  
**Chargement Mécanique** – Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas liée à un chargement mécanique inégal.

**Circuit Overloading** - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.  
**Surtenstion** – Il convient de prendre l'ensemble des précautions nécessaires lors du branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de l'équipement.

**Reliable Earthing** - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).  
**Fiabilité de la mise à la terre**– Fiabilité de la mise à la terre de l'équipement monté en rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

*Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude)*  
*Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).*

### Safety

**Moving parts — Hazardous moving parts. Keep away from moving fan blades.**  
**Pièces mobiles – Pièces mobiles dangereuses. Se tenir éloigné des lames mobiles du ventilateur.**

**Warning:** Equipment intended for installation in Restricted Access Location.  
**Avertissement:** Le matériel est conçu pour être installé dans un endroit où l'accès est restreint.

**Battery** – Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.  
**Batterie** – Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

**警告**  
本電池如果更換不正確會有爆炸的危險  
請依製造商說明書處理用過之電池

**Caution:** Disconnect power supply cords before servicing.  
**Attention:** Débranchez les cordons de la source d'alimentation avant tout entretien.

**Caution:** Slide/rail mounted equipment is not to be used as a shelf or a work space.  
**Attention:** Un équipement monté sur bâti ne doit pas être utilisé sur une étagère ou dans un espace de travail.

## Regulatory Notices

### Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

**WARNING:** Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)  
This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

### European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



### Voluntary Control Council for Interference (VCCI) – Japan

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。V C C I – A

### Product Safety Electrical Appliance & Material (PSE) – Japan

日本では電気用品安全法(PSE)の規定により、同梱している電源コードは本製品の専用電源コードとして利用し、他の製品に使用しないでください。

### Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below:  
<https://www.fortinet.com/bsmi>

### China

此為A級產品，在生活環境中，該產品可能會造成無線電干擾。這種情況下，可能需要用戶對其採取切实可行的措施。

## Fortinet Customer Service & Support

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<https://support.fortinet.com>

## Fortinet Document Library

Up-to-date versions of Fortinet publications for the entire family of Fortinet products.

<http://docs.fortinet.com>

## Training Services

Course descriptions, availability, schedules, and location of training programs in your area.

<http://www.fortinet.com/support/training.html>

## Technical Discussion Forums

Communicate with other customers and Fortinet partners about Fortinet products, services, and configuration issues.

<https://support.fortinet.com/forum>

## FortiGuard Threat Research and Response

Up-to-date information on vulnerabilities and threats, includes a virus scanner, IP signature look-up, and web filtering tools.

<http://www.fortiguard.com>

## Fortinet Product License Agreement / EULA and Warranty Terms

<https://www.fortinet.com/content/dam/fortinet/assets/legal/EULA.pdf>

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